AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A semiconductor laser device which emits light at at least one oscillation wavelength, the laser device comprising a reflective film including a multilayer dielectric film, on at least one side of an optical exit face of a laser chip, wherein

the reflective film includes, <u>adjacent and</u> in sequence from a side in contact with the laser chip, a first dielectric film having a refractive index n1, a second dielectric film having a refractive index n2, a third dielectric film having a refractive index n3, and a fourth dielectric film having a refractive index n4,

$$n2 = n4 < n1 < n3$$
, and

the reflective film has a reflectance within a range of 3% to 15% at at least one of the oscillation wavelengths.

2. (Currently Amended) A semiconductor laser device which emits light at at least one oscillation wavelength, the laser device comprising a reflective film including a multilayer dielectric film, on at least one side of an optical exit face of a laser chip, wherein

the reflective film includes, <u>adjacent and</u> in sequence from a side in contact with the laser chip, a first dielectric film having a refractive index n1, a second dielectric film having a refractive index n2, a third dielectric film having a refractive index n3, and a fourth dielectric film having a refractive index n4,

$$n2 = n4 < n3 < n1$$
, and

the reflective film has a reflectance within a range of 3% to 15% at at least one of the oscillation wavelengths.

- 3. (Previously Presented) The semiconductor laser device according to Claim 1, wherein each of the first, second, third, and fourth dielectric films has a thickness, in terms of optical length, within $\pm 30\%$ of a thickness that is an integer multiple of 1/4 of the at least one oscillation wavelength of the semiconductor laser device.
- 4. (Previously Presented) The semiconductor laser device according to Claim 2, wherein each of the first, second, third, and fourth dielectric films has a thickness, in terms of optical length, within $\pm 30\%$ of a thickness that is an integer multiple of 1/4 of the at least one oscillation wavelength of the semiconductor laser device.
- 5. (Previously Presented) A semiconductor laser device which emits light at at least one oscillation wavelength, λ , comprising:

a reflective film including a multilayer dielectric film, on at least one side of optical exit faces of a laser chip, wherein

the reflective film has a reflectance of 3% to 15% and includes, in sequence from a side in contact with the laser chip, a first dielectric film of a refractive index n1 and a thickness d1, a second dielectric film of a refractive index n2 and a thickness d2, a third dielectric film of a refractive index n3 and a thickness d3, and a fourth dielectric film of a refractive index n4 and a thickness d4,

the refractive index n1 satisfies $1.6 < n1 \le 1.9$, the refractive index n2 satisfies $1.3 \le n2 \le 1.6$, the refractive index n3 satisfies $1.9 < n3 \le 2.3$, and the refractive index n4 satisfies $1.3 \le n4 \le 1.6$, and

the thickness d1 is substantially equal to $(2*h + 1)\mathcal{N}(4*n1)$, the thickness d2 is substantially equal to $(2*i + 1)\mathcal{N}(4*n2)$, the thickness d3 is substantially equal to $(2*j + 1)\mathcal{N}(4*n3)$, and the thickness d4 is substantially equal to $(2*k + 1)\mathcal{N}(4*n4)$, and each of h, i, j, and k is zero or a positive integer.

6. (Previously Presented) A semiconductor laser device which emits light at at least one oscillation wavelength λ , the laser device comprising:

a reflective film including a multilayer dielectric film, on at least one side of optical exit faces of a laser chip, wherein

the reflective film has a reflectance of 3% to 15% and includes, in sequence from a side in contact with the laser chip, a first dielectric film of a refractive index n1 and a thickness d1, a second dielectric film of a refractive index n2 and a thickness d2, a third dielectric film of a refractive index n3 and a thickness d3, and a fourth dielectric film of a refractive index n4 and a thickness d4,

the refractive index n1 satisfies $1.9 < n1 \le 2.3$, the refractive index n2 satisfies $1.3 \le n2 \le 1.6$, the refractive index n3 satisfies $1.6 < n3 \le 1.9$, and the refractive index n4 satisfies $1.3 \le n4 \le 1.6$, and

the thickness d1 is substantially equal to $(2*h + 1)\mathcal{N}(4*n1)$, the thickness d2 is substantially equal to $(2*i + 1)\mathcal{N}(4*n2)$, the thickness d3 is substantially equal to $(2*j + 1)\mathcal{N}(4*n3)$, and the thickness d4 is substantially equal to $(2*k + 1)\mathcal{N}(4*n4)$, each of h, i, j, and k is zero or a positive integer.

- 7. (Previously Presented) The semiconductor laser device according to Claim 1, wherein the first dielectric film is selected from the group consisting of Al₂O₃, CeF₃, NdF₃, MgO, and Y₂O₃, the second and fourth dielectric films are f selected from the group consisting of SiO₂, MgF₂, BaF₂, and CaF₂, and the third dielectric film is selected from the group consisting of Ta₂O₅, SiO, ZrO₂, ZnO, TiO, TiO₂, ZnS, Nb₂O₅, HfO₂, and AlN.
- 8. (Previously Presented) The semiconductor laser device according to Claim 5, wherein the first dielectric film is selected from the group consisting of Al₂O₃, CeF₃, NdF₃, MgO, and Y₂O₃, the second and fourth dielectric films are selected from the group consisting of SiO₂, MgF₂, BaF₂, and CaF₂, and the third dielectric film is selected from the group consisting of Ta₂O₅, SiO, ZrO₂, ZnO, TiO, TiO₂, ZnS, Nb₂O₅, HfO₂, and AlN.
- 9. (Previously Presented) The semiconductor laser device according to Claim 2, wherein the first dielectric film is selected from the group consisting of Ta₂O₅, SiO, ZrO₂,

ZnO, TiO, TiO₂, ZnS, Nb₂O₅, HfO₂, and AlN, the second and fourth dielectric films are selected from the group consisting of SiO₂, MgF₂, BaF₂, and CaF₂, and the third dielectric film is selected from the group consisting of Al₂O₃, CeF₃, NdF₃, MgO, and Y₂O₃.

- 10. (Previously Presented) The semiconductor laser device according to Claim 6, wherein the first dielectric film is selected from the group consisting of Ta₂O₅, SiO, ZrO₂, ZnO, TiO, TiO₂, ZnS, Nb₂O₅, HfO₂, and AlN, the second and fourth dielectric films are selected from the group consisting of SiO₂, MgF₂, BaF₂, and CaF₂, and the third dielectric film is selected from the group consisting of Al₂O₃, CeF₃, NdF₃, MgO, and Y₂O₃.
- 11. (Previously Presented) The semiconductor laser device according to Claim 1, including a fifth dielectric film and a sixth dielectric film on a first region of the reflective film, but not on a second region of the reflective film, and reflectance of the first region is smaller than reflectance of the second region.
- 12. (Previously Presented) The semiconductor laser device according to Claim 2, including a fifth dielectric film and a sixth dielectric film on a first region of the reflective film, but not on a second region of the reflective film, and reflectance of the first region is smaller than reflectance of the second region.
- 13. (Previously Presented) The semiconductor laser device according to Claim 11, wherein each of the fifth and sixth dielectric films has a thickness, in terms of optical length, within $\pm 30\%$ of range of an integral multiple of 1/4 of the oscillation wavelength of the semiconductor laser device.
- 14. (Previously Presented) The semiconductor laser device according to Claim 12, wherein each of the fifth and sixth dielectric films has a thickness, in terms of optical length, within ±30% of range of an integral multiple of 1/4 of the oscillation wavelength of the semiconductor laser device.

- 15. (Previously Presented) The semiconductor laser device according to Claim 13, wherein the fifth dielectric film is selected from the group consisting of Al₂O₃, CeF₃, NdF₃, MgO, and Y₂O₃, and the sixth dielectric film is selected from the group consisting of SiO₂, MgF₂, BaF₂, and CaF₂.
- 16. (Previously Presented) The semiconductor laser device according to Claim 14, wherein the fifth dielectric film is selected from the group consisting of Al₂O₃, CeF₃, NdF₃, MgO, and Y₂O₃, and the sixth dielectric film is selected from the group consisting of SiO₂, MgF₂, BaF₂, and CaF₂.

Claims 17-20 (Cancelled).

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- 21. (Previously Presented) A semiconductor laser device according to Claim 1, wherein the first dielectric film is in contact with the optical exit face.
- 22. (Previously Presented) A semiconductor laser device according to Claim 2, wherein the first dielectric film is in contact with the optical exit face.